

Patent Claims

1. Core which is suitable as a core for roofing and sealing membranes, comprising a reinforcement-free, bonded non-woven of polyester filaments which is bound by a binder and which has a latent shrinkage force which counteracts the strains which arise in those subsequent treatment operations in the course of the manufacture of composite materials which take place under heat, the shrinkage force being 2 N/5 cm to 20 N/5 cm.
2. Core according to claim 1, characterised in that the non-woven is bonded mechanically by means of needles.
3. Core according to claim 1 or 2, characterised in that the non-woven is bonded hydrodynamically.
4. Core according to claim 1, characterised in that the non-woven is bonded thermally.
5. Core according to at least one of claims 1 to 4, characterised in that the shrinkage force is equal to the strains.
6. Core according to at least one of claims 1 to 5, characterised in that the shrinkage force is 6 N/5 cm to 10 N/5 cm.
7. Core according to at least one of claims 1 to 6, characterised in that the non-woven is a non-woven of polyethylene terephthalate filaments.
8. Method of producing a reinforcement-free non-woven core of polyester filaments which is suitable as a core for roofing and sealing membranes, characterised in that a non-woven of polyester filaments is produced by the spun-bond process, the non-woven obtained in this way is bonded, is provided with a binder, is dried in a dryer and is stretched on a stretching unit positioned downstream of a dryer to an extent

such that the non-woven has a shrinkage force which counteracts the strains which arise in the subsequent treatment operations which take place under heat, the shrinkage force being in a range from 2 N/5 cm to 20 N/5 cm.

9. Method according to claim 8, characterised in that the shrinkage force is equal to the strains.
10. Method according to claim 8 or 9, characterised in that shrinkage force is in a range from 6 N/5 cm to 10 N/5 cm.
11. Method according to at least one of claims 9 and 10, characterised in that the non-woven of polyester filaments is a non-woven of polyethylene terephthalate.
12. Method according to at least one of claims 8 to 11, characterised in that for bonding the non-woven is needle-punched and passed through a calender.
13. Composite materials containing cores according to one of claims 1 to 12.
14. Roofing or sealing membranes containing cores according to one of claims 1 to 12.